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L5: Entry 17 of 223

File: USPT

Apr 17, 2001

DOCUMENT-IDENTIFIER: US 6219137 B1

TITLE: Nanoprobe for surface-enhanced Raman spectroscopy in medical diagnostic and drug screening

Brief Summary Paragraph Right (12):

The nanoprobe of the present invention comprises a metallic system which provides the SERS effect and a chemical/biological system which provides selective binding within the cell. The nanoprobe has a metallic core which optionally may be magnetic or electrically charged materials. For example the core may be solely metallic material or a non-metallic material with a metallic coating. Preferably the core has an external coating formed of a polymer, a biological material (such as an antibody, enzyme or DNA) or biometric material (e.g. PNA, cyclodextrins or molecular imprint). A nanoprobe can be constructed to sense a particular characteristic of the cell by having specific receptors that provide diagnostic information of different regions and species inside the cell. The receptors also can be selected to provide information regarding characteristics outside of the cells, on the outside surface of the cell, or inside the cells near the nucleus or other intracellular component.

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L5: Entry 24 of 223

File: USPT

Mar 20, 2001

DOCUMENT-IDENTIFIER: US 6203487 B1

TITLE: Use of magnetic particles in the focal delivery of cells

Other Reference Publication (1):

Yeh et al., "Intracellular Labeling of T-Cells with Superparamagnetic Contrast Agents" Magnetic Resonance in Medicine 30(5):617-625 (1993).